Liusheng Duan

List of Publications by Year
in descending order

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106	3,642	172386	149623
papers	citations	29 h-index	56 g-index

107	107	107	4070
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Silicon effects on photosynthesis and antioxidant parameters of soybean seedlings under drought and ultraviolet-B radiation. Journal of Plant Physiology, 2010, 167, 1248-1252.	1.6	282
2	SOS1 gene overexpression increased salt tolerance in transgenic tobacco by maintaining a higher K+/Na+ ratio. Journal of Plant Physiology, 2012, 169, 255-261.	1.6	170
3	Uniconazole-induced tolerance of soybean to water deficit stress in relation to changes in photosynthesis, hormones and antioxidant system. Journal of Plant Physiology, 2007, 164, 709-717.	1.6	142
4	Tillage practices affect biomass and grain yield through regulating root growth, root-bleeding sap and nutrients uptake in summer maize. Field Crops Research, 2014, 157, 89-97.	2.3	140
5	Bidirectional processing of pri-miRNAs with branched terminal loops byÂArabidopsisÂDicer-like1. Nature Structural and Molecular Biology, 2013, 20, 1106-1115.	3.6	133
6	Coronatine alleviates salinity stress in cotton by improving the antioxidative defense system and radical-scavenging activity. Journal of Plant Physiology, 2008, 165, 375-384.	1.6	126
7	Mechanism of phytohormone involvement in feedback regulation of cotton leaf senescence induced by potassium deficiency. Journal of Experimental Botany, 2012, 63, 5887-5901.	2.4	125
8	Brassinolide alleviated the adverse effect of water deficits on photosynthesis and the antioxidant of soybean (Glycine max L.). Plant Growth Regulation, 2008, 56, 257-264.	1.8	119
9	Physiological Evaluation of Drought Stress Tolerance and Recovery in Cauliflower (Brassica) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T Regulation, 2012, 31, 113-123.	2.8	112
10	Optimizing soaking and germination conditions to improve gamma-aminobutyric acid content in japonica and indica germinated brown rice. Journal of Functional Foods, 2014, 10, 283-291.	1.6	108
11	Spatiotemporal Sequestration of miR165/166 by Arabidopsis Argonaute10 Promotes Shoot Apical Meristem Maintenance. Cell Reports, 2015, 10, 1819-1827.	2.9	106
12	Genotypic variations in photosynthetic and physiological adjustment to potassium deficiency in cotton (Gossypium hirsutum). Journal of Photochemistry and Photobiology B: Biology, 2012, 110, 1-8.	1.7	101
13	Expression of an <scp>A</scp>rabidopsis molybdenum cofactor sulphurase gene in soybean enhances drought tolerance and increases yield under field conditions. Plant Biotechnology Journal, 2013, 11, 747-758.	4.1	101
14	Overexpression of the AtLOS5 gene increased abscisic acid level and drought tolerance in transgenic cotton. Journal of Experimental Botany, 2012, 63, 3741-3748.	2.4	97
15	Overexpression of Arabidopsis Molybdenum Cofactor Sulfurase Gene Confers Drought Tolerance in Maize (Zea mays L.). PLoS ONE, 2013, 8, e52126.	1.1	95
16	Maize yield and quality in response to plant density and application of a novel plant growth regulator. Field Crops Research, 2014, 164, 82-89.	2.3	94
17	Regulation of cotton (GossypiumÂhirsutum) drought responses by mitogenâ€activated protein (<scp>MAP</scp>) kinase cascadeâ€mediated phosphorylation of Gh<scp>WRKY</scp>59. New Phytologist, 2017, 215, 1462-1475.	3.5	91
18	Effect of acetylation on antioxidant and cytoprotective activity of polysaccharides isolated from pumpkin (Cucurbita pepo, lady godiva). Carbohydrate Polymers, 2013, 98, 686-691.	5.1	75

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19	Increased UVâ€B Radiation Affects the Viability, Reactive Oxygen Species Accumulation and Antioxidant Enzyme Activities in Maize (Zea mays L.) Pollen. Photochemistry and Photobiology, 2010, 86, 110-116.	1.3	73
20	Increased abscisic acid levels in transgenic maize overexpressing AtLOS5 mediated root ion fluxes and leaf water status under salt stress. Journal of Experimental Botany, 2016, 67, 1339-1355.	2.4	68
21	Differential Responses of Conventional and Bt-Transgenic Cotton to Potassium Deficiency. Journal of Plant Nutrition, 2007, 30, 659-670.	0.9	67
22	Cucumber (Cucumis sativus L.) over-expressing cold-induced transcriptome regulator ICE1 exhibits changed morphological characters and enhances chilling tolerance. Scientia Horticulturae, 2010, 124, 29-33.	1.7	64
23	Coronatine enhances drought tolerance via improving antioxidative capacity to maintaining higher photosynthetic performance in soybean. Plant Science, 2013, 210, 1-9.	1.7	54
24	NaCl salinity stress decreased Bacillus thuringiensis (Bt) protein content of transgenic Bt cotton (Gossypium hirsutum L.) seedlings. Environmental and Experimental Botany, 2006, 55, 315-320.	2.0	46
25	Arabidopsis LOS5/ABA3 overexpression in transgenic tobacco (Nicotiana tabacum cv. Xanthi-nc) results in enhanced drought tolerance. Plant Science, 2011, 181, 405-411.	1.7	37
26	Ethephon-regulated maize internode elongation associated with modulating auxin and gibberellin signal to alter cell wall biosynthesis and modification. Plant Science, 2020, 290, 110196.	1.7	35
27	Effects of Coronatine on Growth, Gas Exchange Traits, Chlorophyll Content, Antioxidant Enzymes and Lipid Peroxidation in Maize (Zea mays L.) Seedlings under Simulated Drought Stress. Plant Production Science, 2008, 11, 283-290.	0.9	33
28	Co-Induction of a Glutathione-S-transferase, a Glutathione Transporter and an ABC Transporter in Maize by Xenobiotics. PLoS ONE, 2012, 7, e40712.	1.1	33
29	Plant growth regulator and its interactions with environment and genotype affect maize optimal plant density and yield. European Journal of Agronomy, 2017, 91, 34-43.	1.9	31
30	Genetic Diversity of Wild Oat (Avena fatua)Populations from China and the United States. Weed Science, 2007, 55, 95-101.	0.8	29
31	Cotton shoot plays a major role in mediating senescence induced by potassium deficiency. Journal of Plant Physiology, 2012, 169, 327-335.	1.6	29
32	Comparative Effect of Nitrogen Forms on Nitrogen Uptake and Cotton Growth Under Salinity Stress. Journal of Plant Nutrition, 2015, 38, 1530-1543.	0.9	28
33	GENOTYPIC VARIATIONS IN POTASSIUM UPTAKE AND UTILIZATION IN COTTON. Journal of Plant Nutrition, 2010, 34, 83-97.	0.9	27
34	Resistance selection and mechanisms of oriental tobacco budworm (Helicoverpa assulta Guenee) to indoxacarb. Pesticide Biochemistry and Physiology, 2012, 103, 219-223.	1.6	27
35	Plant growth regulation enhanced potassium uptake and use efficiency in cotton. Field Crops Research, 2014, 163, 109-118.	2.3	27
36	Dynamic transcriptional profiling provides insights into tuberous root development in Rehmannia glutinosa. Frontiers in Plant Science, 2015, 6, 396.	1.7	27

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37	Ethephon improved drought tolerance in maize seedlings by modulating cuticular wax biosynthesis and membrane stability. Journal of Plant Physiology, 2017, 214, 123-133.	1.6	27
38	Coronatine Alleviates Water Deficiency Stress on Winter Wheat Seedlings. Journal of Integrative Plant Biology, 2010, 52, 616-625.	4.1	26
39	Coronatineâ€induced lateralâ€root formation in cotton (Gossypium hirsutum) seedlings under potassiumâ€sufficient and â€deficient conditions in relation to auxin. Journal of Plant Nutrition and Soil Science, 2009, 172, 435-444.	1.1	25
40	Combining Physiological and Metabolomic Analysis to Unravel the Regulations of Coronatine Alleviating Water Stress in Tobacco (Nicotiana tabacum L.). Biomolecules, 2020, 10, 99.	1.8	25
41	Lignosulfonate Improves Photostability and Bioactivity of Abscisic Acid under Ultraviolet Radiation. Journal of Agricultural and Food Chemistry, 2018, 66, 6585-6593.	2.4	23
42	Nutrient Acquisition by Soybean Treated with and without Silicon under Ultraviolet-B Radiation. Journal of Plant Nutrition, 2009, 32, 1731-1743.	0.9	22
43	Dose-Dependent Effects of Coronatine on Cotton Seedling Growth Under Salt Stress. Journal of Plant Growth Regulation, 2015, 34, 651-664.	2.8	22
44	A novel ABA functional analogue B2 enhances drought tolerance in wheat. Scientific Reports, 2019, 9, 2887.	1.6	21
45	Application of Brassinosteroid Mimetics Improves Growth and Tolerance of Maize to Nicosulfuron Toxicity. Journal of Plant Growth Regulation, 2019, 38, 701-712.	2.8	21
46	Microplastics reduce the bioaccumulation and oxidative stress damage of triazole fungicides in fish. Science of the Total Environment, 2022, 806, 151475.	3.9	21
47	The Phytotoxin Coronatine Induces Abscission-Related Gene Expression and Boll Ripening during Defoliation of Cotton. PLoS ONE, 2014, 9, e97652.	1.1	19
48	Phytotoxin coronatine enhances heat tolerance via maintaining photosynthetic performance in wheat based on Electrophoresis and TOF-MS analysis. Scientific Reports, 2015, 5, 13870.	1.6	19
49	Saving Irrigation Water for Winter Wheat with Phosphorus Application in the North China Plain. Journal of Plant Nutrition, 2005, 28, 2001-2010.	0.9	18
50	Introducing selective agrochemical manipulation of gibberellin metabolism into a cereal crop. Nature Plants, 2020, 6, 67-72.	4.7	17
51	SILICON MITIGATES ULTRAVIOLET-B RADIATION STRESS ON SOYBEAN BY ENHANCING CHLOROPHYLL AND PHOTOSYNTHESIS AND REDUCING TRANSPIRATION. Journal of Plant Nutrition, 2014, 37, 837-849.	0.9	15
52	Coronatine enhances drought tolerance in winter wheat by maintaining high photosynthetic performance. Journal of Plant Physiology, 2018, 228, 59-65.	1.6	15
53	Ethephon Improved Stalk Strength of Maize (Zea Mays L.) Mainly through Altering Internode Morphological Traits to Modulate Mechanical Properties under Field Conditions. Agronomy, 2019, 9, 186.	1.3	15
54	Physiological and Transcriptome Profiling Analyses Reveal Important Roles of Coronatine in Improving Drought Tolerance of Tobacco. Journal of Plant Growth Regulation, 2020, 39, 1346-1358.	2.8	14

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55	Use of EDAH Improves Maize Morphological and Mechanical Traits Related to Lodging. Agronomy Journal, 2019, 111, 581-591.	0.9	13
56	Design, synthesis and mode of action of novel <scp>3â€<\/scp>chloroâ€6â€pyrazolyl picolinate derivatives as herbicide candidates. Pest Management Science, 2021, 77, 2252-2263.	1.7	13
57	Photoprotectant improves photostability and bioactivity of abscisic acid under UV radiation. Journal of Photochemistry and Photobiology B: Biology, 2016, 158, 99-104.	1.7	12
58	Synthesis of Gibberellic Acid Derivatives and Their Effects on Plant Growth. Molecules, 2017, 22, 694.	1.7	12
59	Coronatine inhibits mesocotyl elongation by promoting ethylene production in etiolated maize seedlings. Plant Growth Regulation, 2020, 90, 51-61.	1.8	12
60	SILICON EFFECTS ON THE PARTITIONING OF MINERAL ELEMENTS IN SOYBEAN SEEDLINGS UNDER DROUGHT AND ULTRAVIOLET-B RADIATION. Journal of Plant Nutrition, 2014, 37, 828-836.	0.9	11
61	System Analysis of MIRNAs in Maize Internode Elongation. Biomolecules, 2019, 9, 417.	1.8	11
62	Increase in root density induced by coronatine improves maize drought resistance in North China. Crop Journal, 2023, 11, 278-290.	2.3	11
63	Variations in Growth, Photosynthesis and Defense System Among Four Weed Species Under Increased UV-B Radiation. Journal of Integrative Plant Biology, 2007, 49, 621-627.	4.1	10
64	Seismic testing of high-strength steel eccentrically braced frames with a vertical link. Proceedings of the Institution of Civil Engineers: Structures and Buildings, 2017, 170, 874-882.	0.4	10
65	Gene Expression Profiles Deciphering the Pathways of Coronatine Alleviating Water Stress in Rice (Oryza sativa L.) Cultivar Nipponbare (Japonica). International Journal of Molecular Sciences, 2019, 20, 2543.	1.8	10
66	Gibberellin biosynthesis inhibitor mepiquat chloride enhances root K+ uptake in cotton by modulating plasma membrane H+-ATPase. Journal of Experimental Botany, 2021, 72, 6659-6671.	2.4	10
67	Comparison of Droplet Deposition, 28-Homobrassinolide Dosage Efficacy and Working Efficiency of the Unmanned Aerial Vehicle and Knapsack Manual Sprayer in the Maize Field. Agronomy, 2022, 12, 385.	1.3	9
68	Construction and application of star polycation nanocarrier-based microRNA delivery system in Arabidopsis and maize. Journal of Nanobiotechnology, 2022, 20, 219.	4.2	9
69	Expression of NAC1 up-stream regulatory region and its relationship to the lateral root initiation induced by gibberellins and auxins. Science in China Series C: Life Sciences, 2006, 49, 429-435.	1.3	8
70	Design and synthesis of biotin-tagged photoaffinity probes of jasmonates. Bioorganic and Medicinal Chemistry, 2010, 18, 3012-3019.	1.4	8
71	Improved synthetic route of exo â€16,17â€dihydroâ€gibberellin A5â€13â€acetate and the bioactivity of its derivatives towards Arabidopsis thaliana. Pest Management Science, 2020, 76, 807-817.	1.7	8
72	Exogenous Gamma-aminobutyric Acid Coordinates Active Oxygen and Amino Acid Homeostasis to Enhance Heat Tolerance in Wheat Seedlings. Journal of Plant Growth Regulation, 0, , 1.	2.8	8

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73	Analysis of the genetic basis of plant height-related traits in response to ethylene by QTL mapping in maize (Zea mays L.). PLoS ONE, 2018, 13, e0193072.	1.1	8
74	Analysis of differential expression of genes induced by ethephon in elongating internodes of maize plants. Frontiers of Agricultural Science and Engineering, 2016, 3, 263.	0.9	8
75	Enantioselective Induction of a Glutathione-S-Transferase, a Glutathione Transporter and an ABC Transporter in Maize by Metolachlor and Its (S)-Isomer. PLoS ONE, 2012, 7, e48085.	1.1	7
76	The effect of phosphate buffer solutions on uniconazole complexation with hydroxypropyl-Î²-cyclodextrin and methyl-Î²-cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2012, 73, 193-198.	1.6	7
77	A Novel Bikinin Analogue for Arabidopsis and Rice with Superior Plant Growth-Promoting Activity. Journal of Plant Growth Regulation, 2018, 37, 166-173.	2.8	7
78	Coronatine Enhances Stalk Bending Resistance of Maize, Thickens the Cell Wall and decreases the Area of the Vascular Bundles. Agronomy, 2020, 10, 807.	1.3	7
79	Coronatine Modulated the Generation of Reactive Oxygen Species for Regulating the Water Loss Rate in the Detaching Maize Seedlings. Agriculture (Switzerland), 2021, 11, 685.	1.4	7
80	Fulvic Acid, Brassinolide, and Uniconazole Mediated Regulation of Morphological and Physiological Traits in Maize Seedlings Under Water Stress. Journal of Plant Growth Regulation, 2023, 42, 1762-1774.	2.8	7
81	Quickly and efficiently remove multiple pesticides in tea infusions by low-cost carbonized bacterial cellulose. Food Chemistry, 2022, 375, 131899.	4.2	6
82	Spike Differentiation in Winter Wheat(Triticum aestivumL.) Mulched with Plastic Films During Over-Wintering Period. Agroecology and Sustainable Food Systems, 2008, 31, 133-144.	0.9	5
83	Enhanced UVâ€B Radiation Increases Glyphosate Resistance in Velvetleaf (Abutilon theophrasti). Photochemistry and Photobiology, 2012, 88, 1428-1432.	1.3	5
84	A Novel Plant Growth Regulator Alleviates Highâ€Temperature Stress in Maize. Agronomy Journal, 2018, 110, 2350-2359.	0.9	5
85	Design, synthesis, biological activities, and dynamic simulation study of novel thiourea derivatives with gibberellin activity towards Arabidopsis thaliana. Bioorganic and Medicinal Chemistry, 2019, 27, 114969.	1.4	5
86	Computational-Aided Discovery of Novel 1,3-Benzodioxole Plant Growth Retardants. Journal of Plant Growth Regulation, 2020, 39, 888-896.	2.8	5
87	Data-Independent Acquisition Proteomics Unravels the Effects of Iron Ions on Coronatine Synthesis in Pseudomonas syringae pv. tomato DC3000. Frontiers in Microbiology, 2020, 11, 1362.	1.5	5
88	Transcriptome dynamic landscape underlying the improvement of maize lodging resistance under coronatine treatment. BMC Plant Biology, 2021, 21, 202.	1.6	5
89	Coronatine alleviates cold stress by improving growth and modulating antioxidative defense system in rice (Oryza sativa L.) seedlings. Plant Growth Regulation, 2022, 96, 283-291.	1.8	5
90	SKI-INTERACTING PROTEIN interacts with SHOOT MERISTEMLESS to regulate shoot apical meristem formation. Plant Physiology, 2022, 189, 2193-2209.	2.3	5

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91	The fate of Cry1Ac Bt toxin during oyster mushroom (Pleurotus ostreatus) cultivation on transgenic Bt cottonseed hulls. Journal of the Science of Food and Agriculture, 2008, 88, 214-217.	1.7	4
92	Synthesis and plant growth regulation activity of Î±-d-ManpNAc-(1â†'2)-[Î±-l-Rhap-(1â†'3)-]Î±-l-Rhap-(1â†'4)-Î²-d-GlupNAc-(1â†'3)-Î±-l-Rhap, the repeating unit of O-antigen of Rhizobium trifolii 4s. Carbohydrate Research, 2014, 388, 87-93.	1.7	4
93	An ABA Functional Analogue B2 Enhanced Salt Tolerance by Inducing the Root Elongation and Reducing Peroxidation Damage in Maize Seedlings. International Journal of Molecular Sciences, 2021, 22, 12986.	1.8	4
94	Coronatine effects on yield, nutrient uptake, and physio-biochemical attributes of soybean roots. Journal of Plant Nutrition, 2018, 41, 664-671.	0.9	3
95	Design, synthesis and biological activities of novel urea derivatives with superior plant growth-inhibiting activity. Plant Growth Regulation, 2021, 93, 243-252.	1.8	3
96	Dissection of the molecular genetic architecture of the ratio of ear to plant heights in response to ethylene by a RIL population with SNPs marker in maize. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	2
97	Design, Synthesis and Gibberellin-Like Activity of Novel 1-Substituted 3-[3-(Trifluoromethyl)phenyl]thiourea Derivatives. Journal of Plant Growth Regulation, 2022, 41, 1845-1853.	2.8	2
98	Self-assembly of 1-triacontanol onto layered doubled hydroxide nano-carriers toward sustainable growth regulation of maize. Environmental Science: Nano, 2022, 9, 797-804.	2.2	2
99	Better Droplet Deposition and Internode Shortening Effects of Plant Growth Regulator EDAH on Maize Applied by Small Unmanned Aerial Vehicle Than Electric Knapsack Sprayer. Agriculture (Switzerland), 2022, 12, 404.	1.4	2
100	Design, Synthesis, and Action Mechanism of 1,3-Benzodioxole Derivatives as Potent Auxin Receptor Agonists and Root Growth Promoters. Frontiers in Plant Science, 0, 13, .	1.7	2
101	Evaluation of the Potential of Diquat (1,1â€²-Ethylene-2,2â€²-bipyridyl) to Assist Maize Mechanical Harvesting As a Desiccant. ACS Agricultural Science and Technology, 0, , .	1.0	1
102	Synthesis and Fluorescent Properties of Aminopyridines and the Application in â€œClick and Probingâ€• Molecules, 2022, 27, 1596.	1.7	1
103	Effect of GA3 and S3307 on Content of Taxol and Its' Precursors of Taxus cuspidate In Vitro. , 2009, , .		0
104	Effects of dapA gene deletion on coronatine biosynthesis in Pseudomonas syringae pv. glycinea PG4180. World Journal of Microbiology and Biotechnology, 2011, 27, 325-331.	1.7	0
105	Biomass yield and quality of the Miscanthus Ã— giganteus in northern China. Agronomy Journal, 2022, 114, 1091-1099.	0.9	0
106	Synthesis of Highly Substituted 2â€Aminopyridines with Vinyl Azides, Isonitriles, and Ketones. Chemistry - an Asian Journal, 2022, , .	1.7	0